

Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	883-055	Clip	3-20
2	912-296	Spring	3-20
3	070126	Wire	3-20
4	057838	Knob	3-20
5	057277	Body	3-20
6	901-134	Knob Washer	3-20
7	876-460	Side Terminal	21-26
8	875-461	Back Terminal	27-28
9	057275	Knob – Gray Valox	29-34
10	057259	Knob – Black Valox	29-34
11	891—018-003	Insert	37-43
12	901-002	Neoprene Washer	44-49
13	905-023	Lock Washer	44-49

TEST REPORT**APPLICANT**

Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020
Berenice Casas / Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description NP

	6) P/N: 883-050 Serie: 345 Int.
	7) P/N: 882-426 Serie: 345 Int.
	8) P/N: 883-048 Serie: 345 Int.
	9) P/N: 883-055 Serie: 345 Int.
	10) P/N: 912-296 Serie: 345 Int.
	11) P/N: 070126 Serie: 345 Int.
	12) P/N: 912-297 Serie: 345 Int.
Item No.	13) P/N: 875-524 Serie: 345 Int.
	14) P/N: 875-521 Serie: 345 Int.
	15) P/N: 891-023 Serie: 345 Int.
	22) P/N: 057256 Serie: 345 Int.
	23) P/N: 057838 Serie: 345 Int.
	26) P/N: 3453RF1-1 Serie: 345 Int.
	27) P/N: 057277 Serie: 345 Int.
	30) P/N: 901-134 Serie: 345

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-04-20

Testing period 2010-04-29 to 2009-05-22

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
6	P/N: 883-050 Serie: 345 Int.	Pass See Result summary	---	---
7	P/N: 882-426 Serie: 345 Int.	Pass See Result summary	---	---
8	P/N: 883-048 Serie: 345 Int.	Pass See Result summary	---	---
9	P/N: 883-055 Serie: 345 Int.	Pass See Result summary	---	---
10	P/N: 912-296 Serie: 345 Int.	Pass See Result summary	---	---
11	P/N: 070126 Serie: 345 Int.	Pass See Result summary	---	---
12	P/N: 912-297 Serie: 345 Int.	Pass See Result summary	---	---
13	P/N: 875-524 Serie: 345 Int.	Pass See Result summary	---	---
14	P/N: 875-521 Serie: 345 Int.	Pass See Result summary	---	---
15	P/N: 891-023 Serie: 345 Int.	Pass See Result summary	---	---
22	P/N: 057256 Serie: 345 Int.	Pass See Result summary	---	---
23	P/N: 057838 Serie: 345 Int.	Pass See Result summary	---	---
26	P/N: 3453RF1-1 Serie: 345 Int.	Pass See Result summary	---	---
27	P/N: 057277 Serie: 345 Int.	Pass See Result summary	---	---
30	P/N: 901-134 Serie: 345	Pass See Result summary	---	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

6) P/N: 883-050 Serie: 345 Int.

7) P/N: 882-426 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(6)	(7)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	13,86	29,46	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

8) P/N: 883-048 Serie: 345 Int.

9) P/N: 883-055 Serie: 345 Int.

10) P/N: 912-296 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(8)	(9)	(10)	
Cadmium (Cd) content	ND	ND	39,706	0,01% (100 ppm)
Lead (Pb) content	14,91	14,09	23,431	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 11) P/N: 070126 Serie: 345 Int.
- 12) P/N: 912-297 Serie: 345 Int.
- 13) P/N: 875-524 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(11)	(12)	(13)	
Cadmium (Cd) content	41,600	39,210	ND	0,01% (100 ppm)
Lead (Pb) content	25,500	22,193	36,80	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 14) P/N: 875-521 Serie: 345 Int.
- 15) P/N: 891-023 Serie: 345 Int.

EST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(14)	(15)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	50,11	27,73	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

22) P/N: 057256 Serie: 345 Int.

23) P/N: 057838 Serie: 345 Int.

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit #
	(22)	(23)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

26) P/N: 3453RF1-1 Serie: 345 Int.

27) P/N: 057277 Serie: 345 Int.

30) P/N: 901-134 Serie: 345

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit #
	(26)	(27)	(30)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

ppm = parts per million based on dry weight of sample.

$\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.

mg/kg WITH 50cm² = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω .

Prepared and checked by :

For Intertek


Laboratory Manager



The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-6 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-7 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-8 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-9 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-10 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-11 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-12 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-13 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-14 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-15 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-22 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-23 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-26 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-27 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-30 WERE TESTED TOGETHER.

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-05-01,03	MELA,JLHS	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
7	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,902
8	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,102
9	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	5,000
10	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	9,800
11	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	10,000
12	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p59	2010-04-29	MARY,DCL	8,77
13	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,808
14	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,717
15	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,464
22	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
23	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	5,0
26	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
27	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902
30	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
6	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
7	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
8	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,041
9	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
10	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
11	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	2,000
12	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,754
13	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,923
14	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,887
15	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,786
22	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
23	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	2,000
26	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
27	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961
30	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961

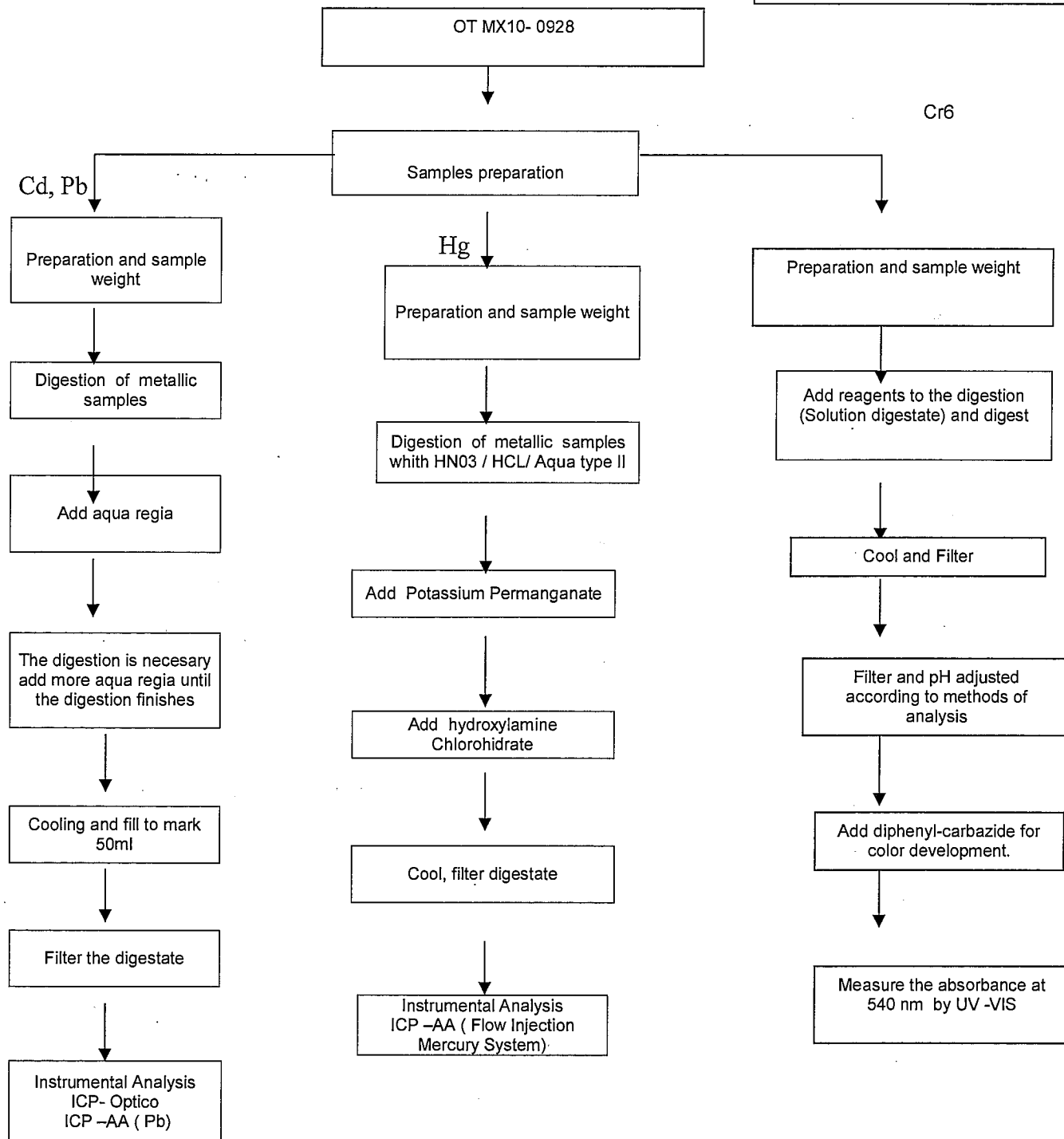
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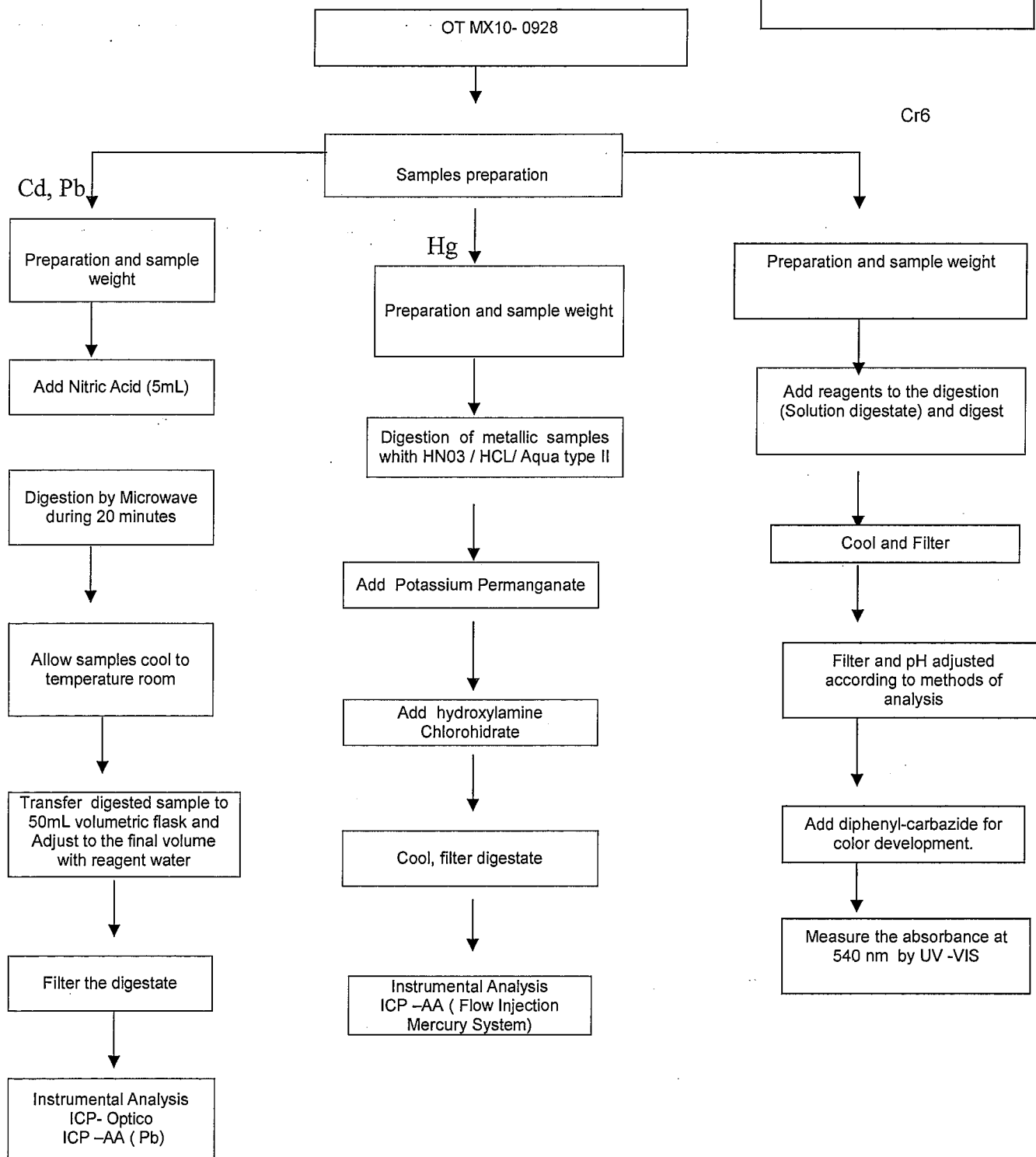
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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

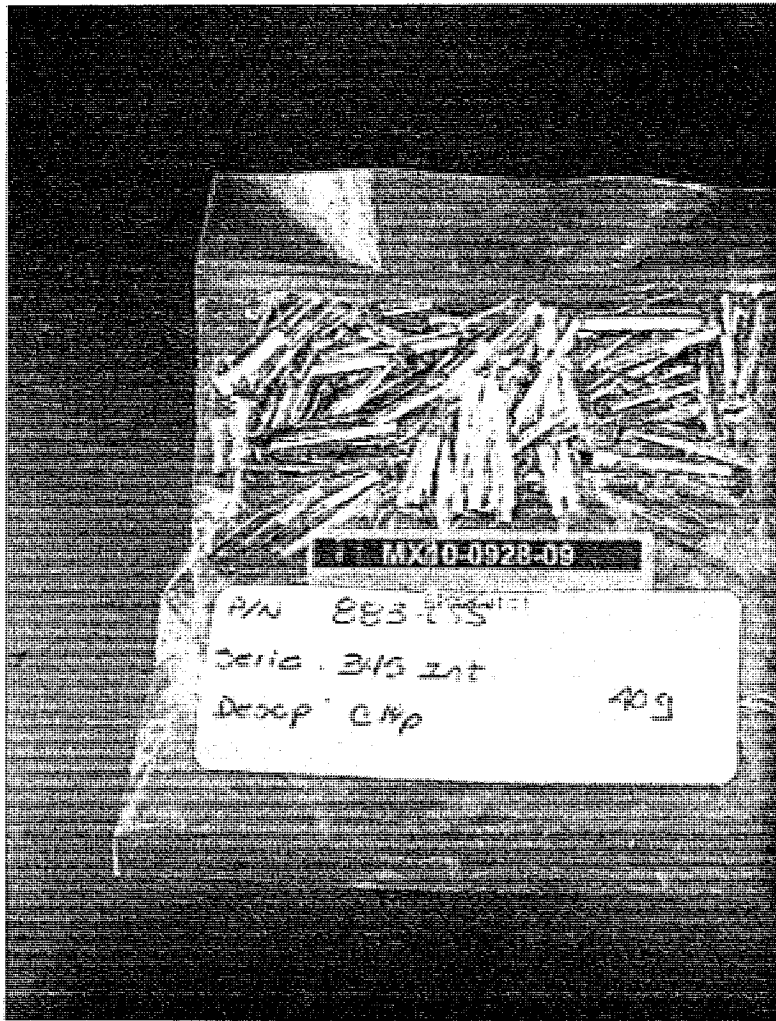
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<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
7	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,082
8	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
9	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
10	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
11	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
12	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0781
13	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0806
14	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0794
15	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0758
22	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0746
23	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0806
26	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0781
27	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833
30	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0833

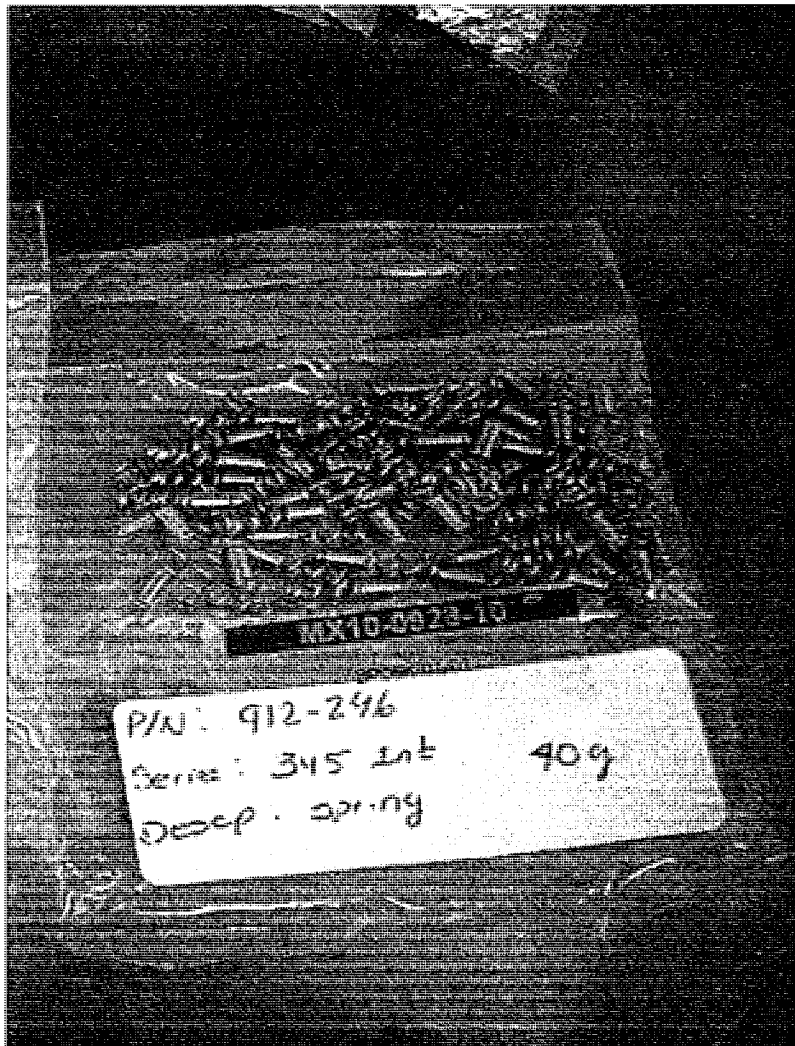


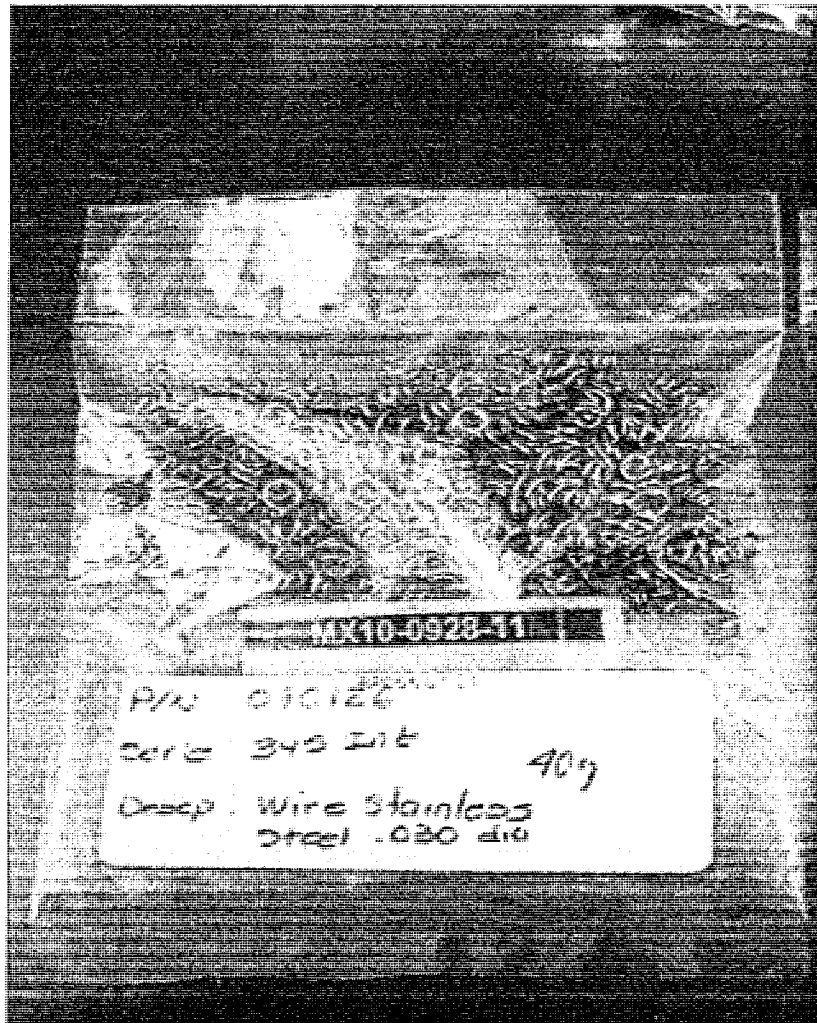


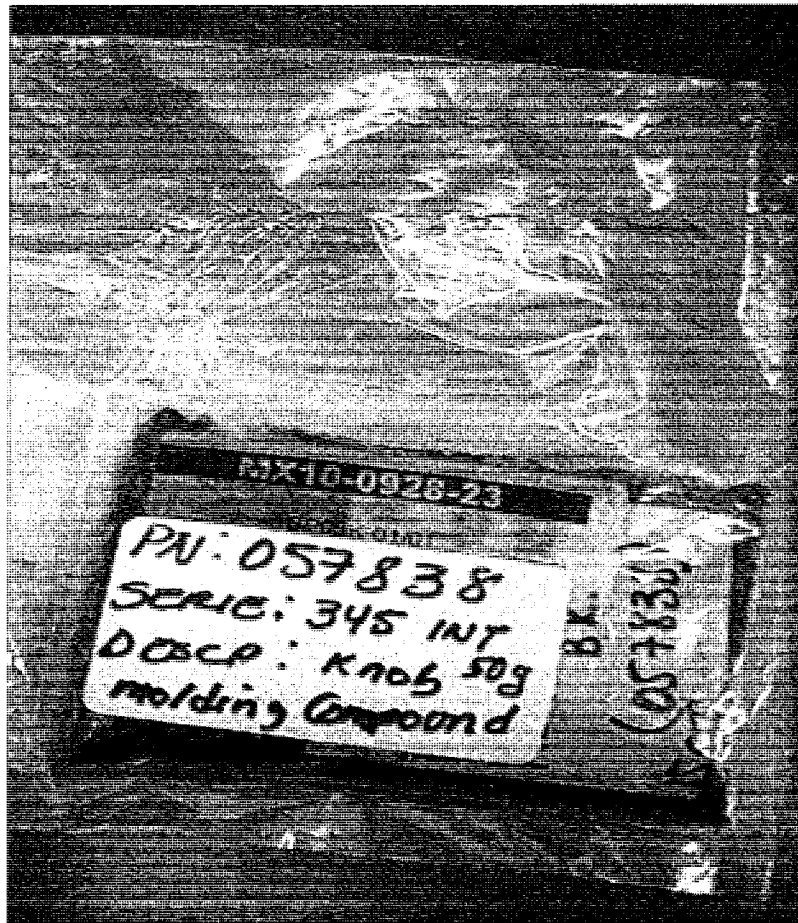
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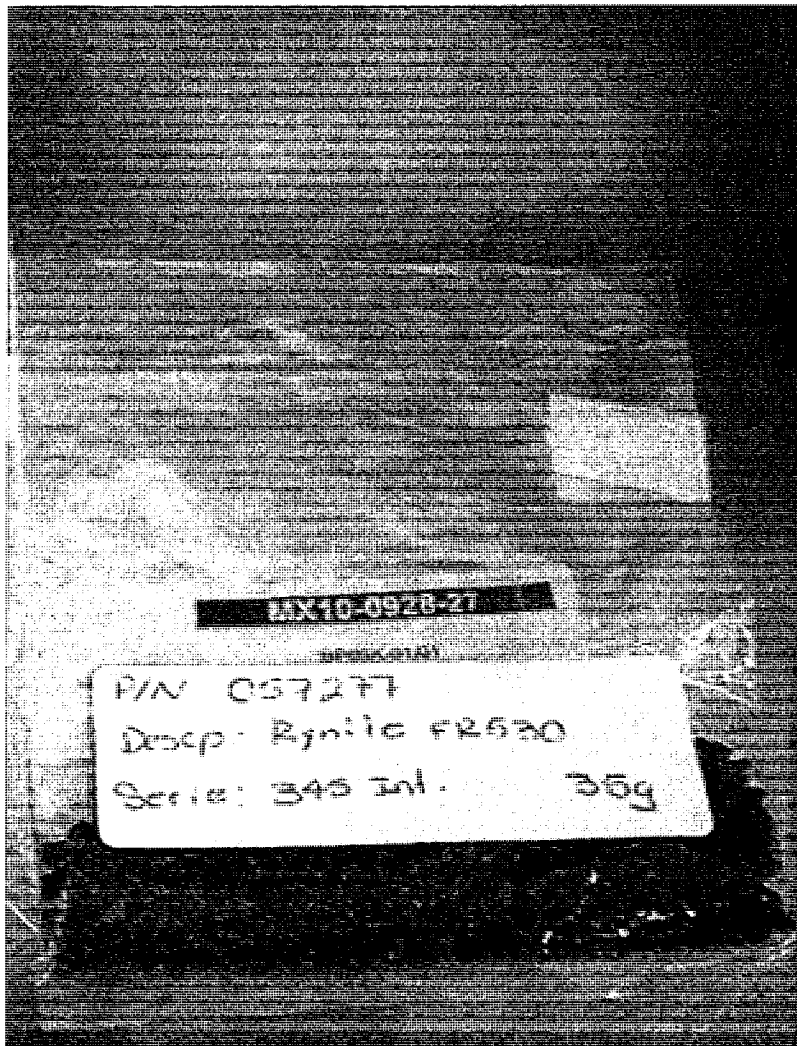


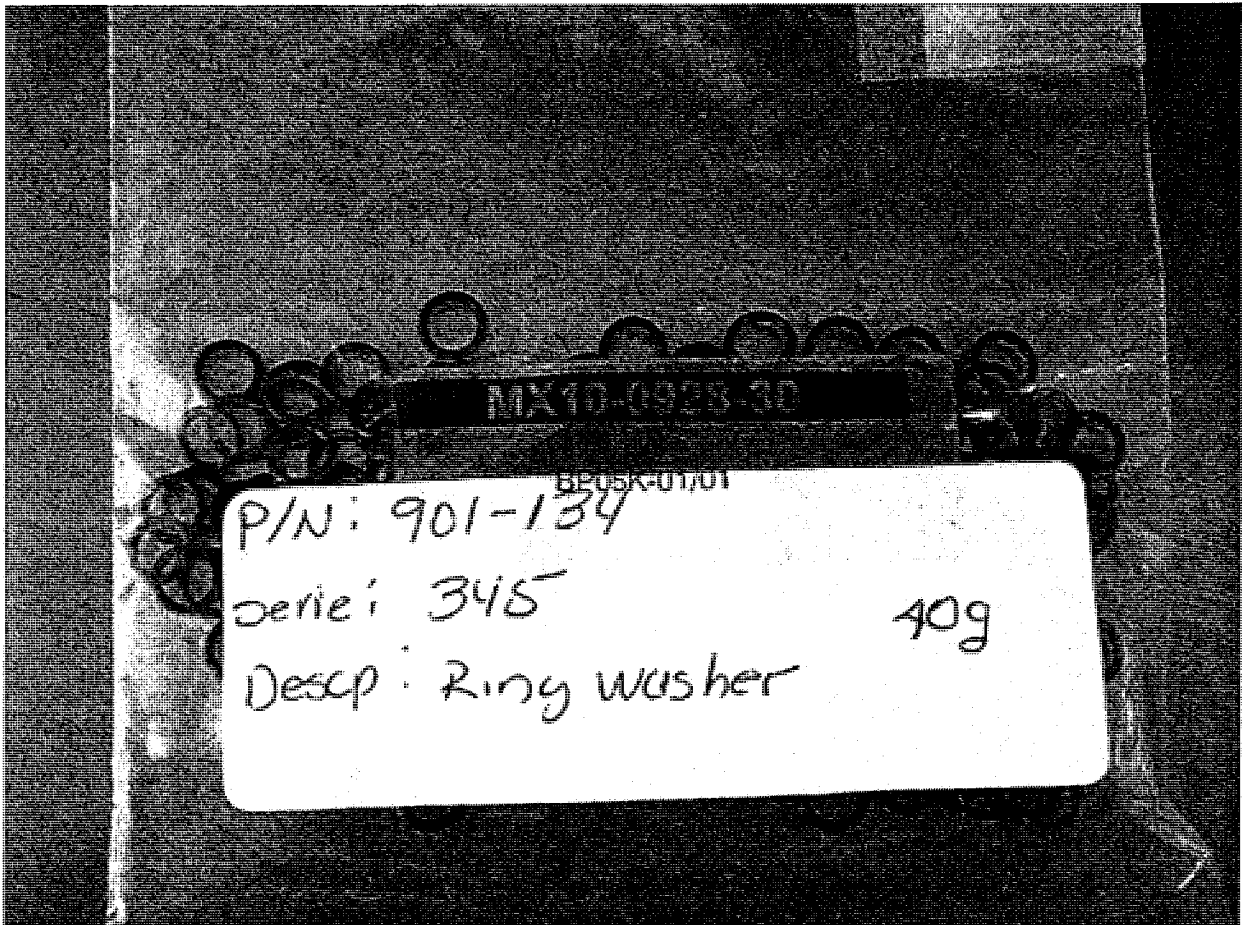
MX10-0928-10



MX10-0928-11

MX10-0928-23

MX10-0928-27

MX10-0928-30

RESULTS REPORT**INTERTEK TESTING SERVICES****DE MEXICO SA DE CV****LABORATORIO CD. DE MEXICO**

DELIVER TO:

Littelfuse, S.A. de C.V.

Poder Judicial No. 1005, Col. Burócratas, Piedras Negras,
Coahuila, C.P. 26020

ATTENTION: Berenice Casas / Mario Falcón

01

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Intertek Testing Services de México, S.A. de C.V.Bívd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
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TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.

Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020

Berenice Casas / Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description NP

Item No. 5) P/N: 875-460 Serie 345

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-04-20

Testing period 2010-04-29 to 2009-05-22

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
5	P/N: 875-460 Serie 345	Pass See Result summary	---	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

5) P/N: 875-460 Serie 345

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)	Limit #
	(5)	
Cadmium (Cd) content	ND	0,01% (100 ppm)
Lead (Pb) content	19,58	0,1% (1000 ppm)
Mercury (Hg) content	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	0,1% (1000 ppm)

ppm = parts per million based on dry weight of sample.

μg/cm² = microgram per square centimeter.

mg/kg WITH 50cm² = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :

For Intertek

Manuel Ávila Camacho
Laboratory Manager



The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO
ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF
Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE
BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS
THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10 928-5 WERE TESTED TOGETHER.

Test method :

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
	Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-05-01,03	MELA,JLHS	2,0

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
5	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,630

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
5	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,852

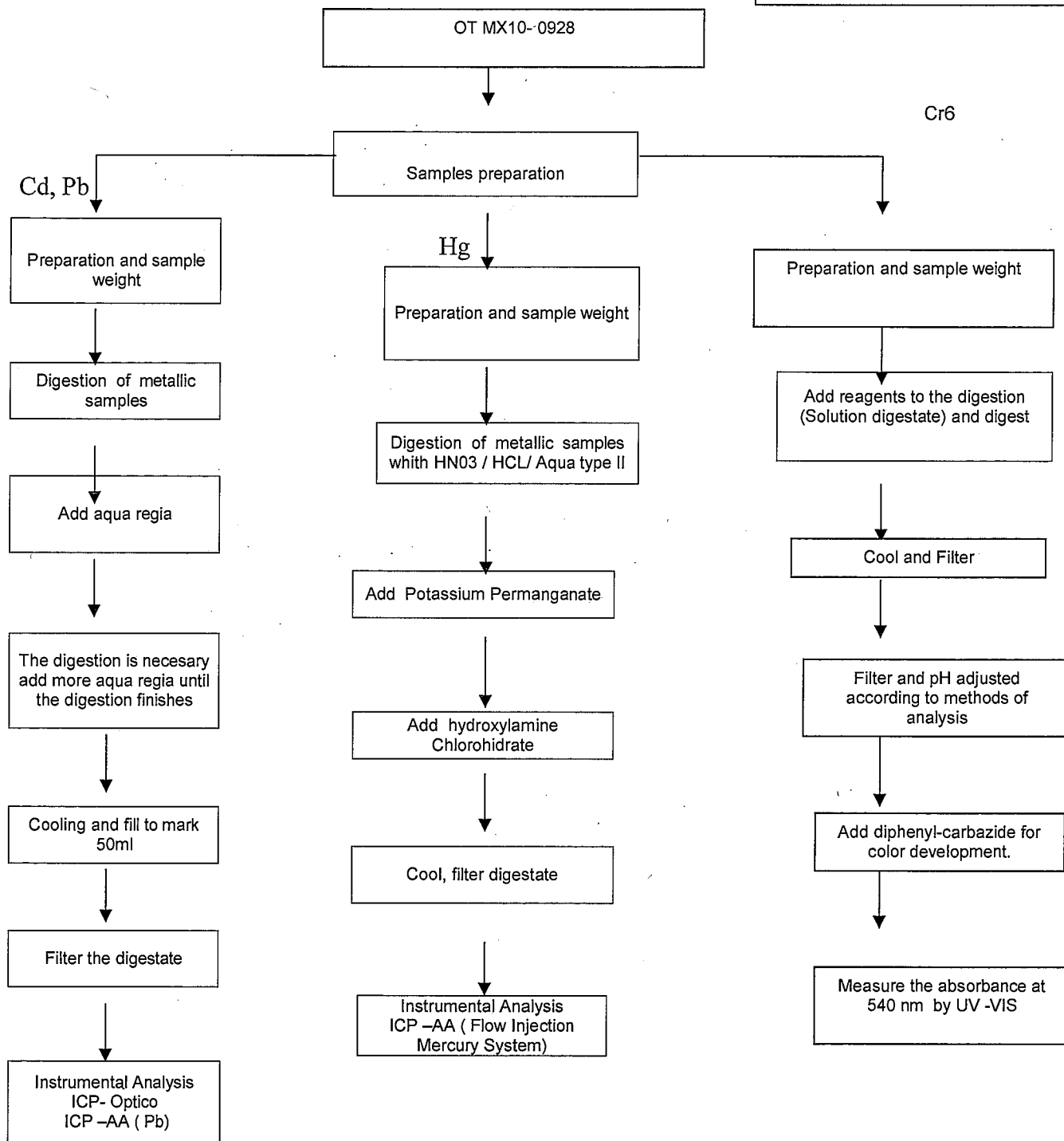
<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
5	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,0833

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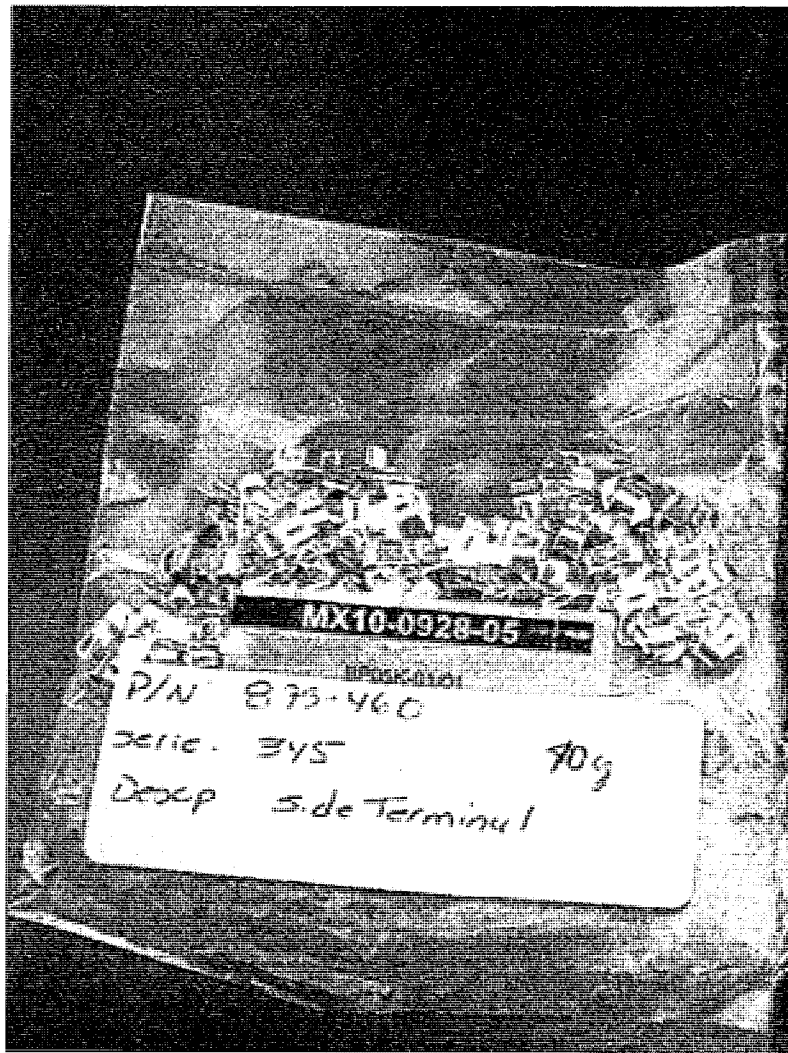
Intertek Testing Services de México, S.A. de C.V.

Bld. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

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MX10-0928-05



Test Report

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Report No. : CE/2006/20021

Date : 2006/02/10

Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

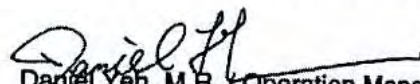
Type of Product : TERMINAL
Style/Item No : PN 875-461
Manufacturer/Supplier : LITTELFUSE INC.
Name
Country of Destination : TAIWAN
Country of Origin : USA
Sample Received : 2006/02/03
Testing Date : 2006/02/03 TO 2006/02/10

Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	4.0
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	67.7

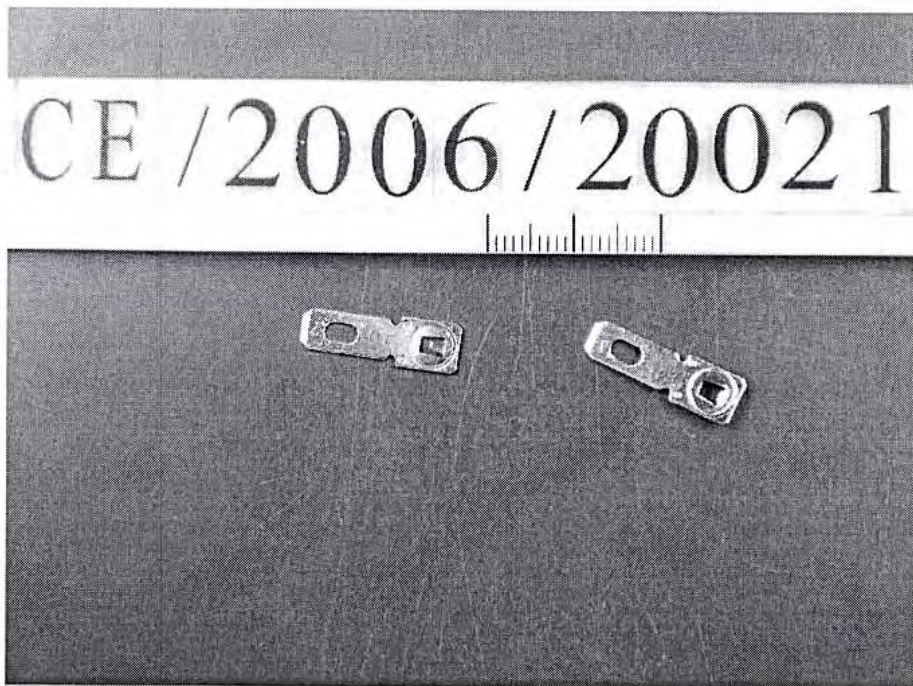
NOTE: (1) N.D. = Not detected (<MDL)
 (2) ppm = mg/kg
 (3) MDL = Method Detection Limit


 Daniel Yen, M.R. / Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.

Test Report

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Report No. : CE/2006/20021
Date : 2006/02/10
Page : 2 of 2





TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description Serie 345 / Serie 345 int. y 245

Item No. 1) N/P 057275
2) N/P 057259 / Series 345 int. y 245

Country of Origin NP
Buyer's Name NP
Supplier's Name NP
Date sample received 2010-09-13
Testing period 2010-09-16 to 2010-09-28

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N/P 057275	Pass See Result summary	---	---
2	N/P 057259 / Series 345 int. y 245	Pass See Result summary	---	---



TEST CONDUCTED

Samples:

- 1) N/P 057275
- 2) N/P 057259 / Series 345 int. y 245

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(1)	(2)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Lead (Pb) content	56,22	20,59	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBES)			
Total	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDES)			
Total	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	---

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Test method :

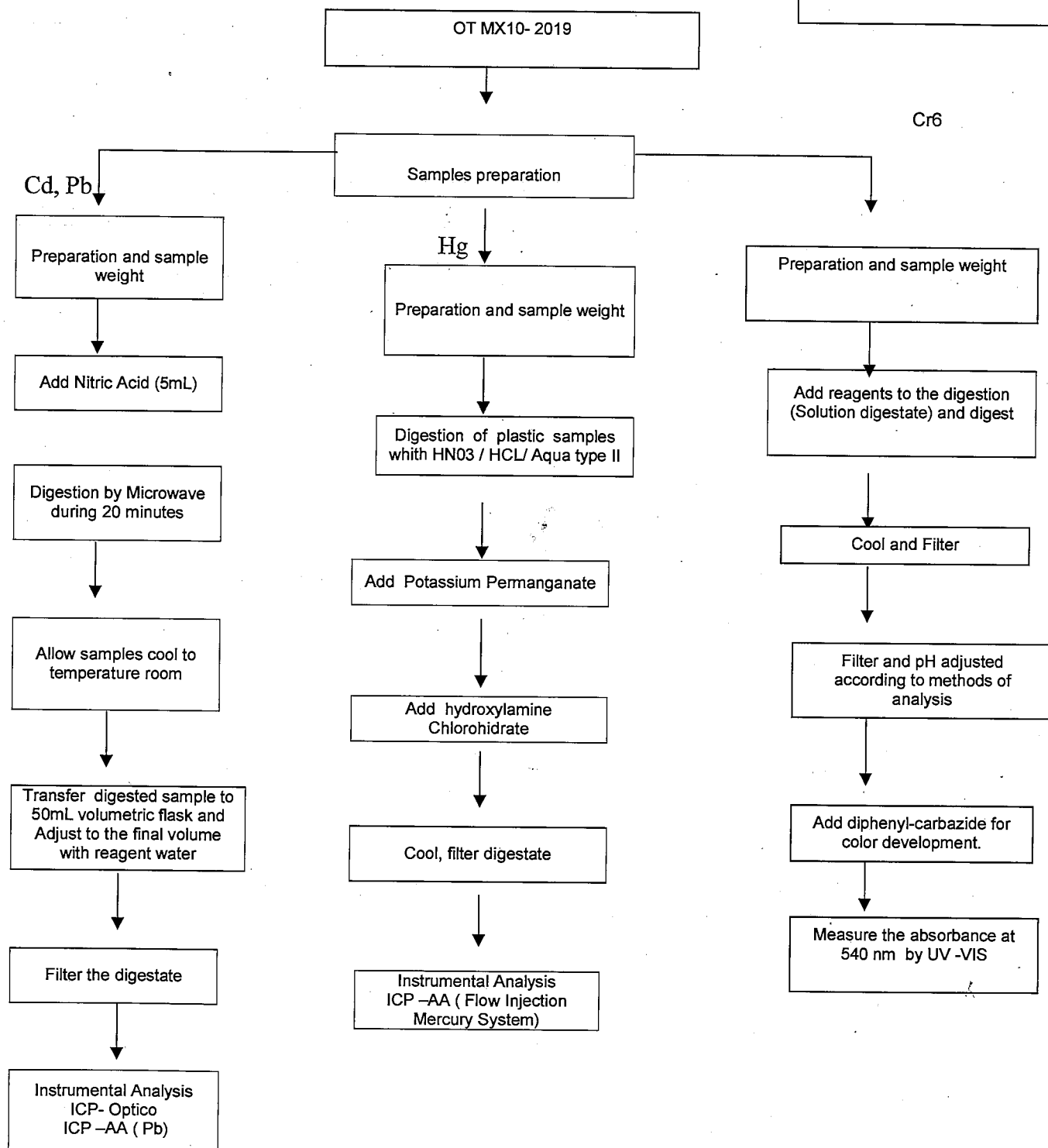
Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-2	Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060, by EPA 7196	QHU2010-45p3	2010-09-21	MELA	20,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-2	POLYBROMINATE D BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004734-P CL	2010-09-16,28	▲ CONT	50,0
1-2	POLYBROMINATE D DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004734-P CL	2010-09-16,28	▲ CONT	50,0

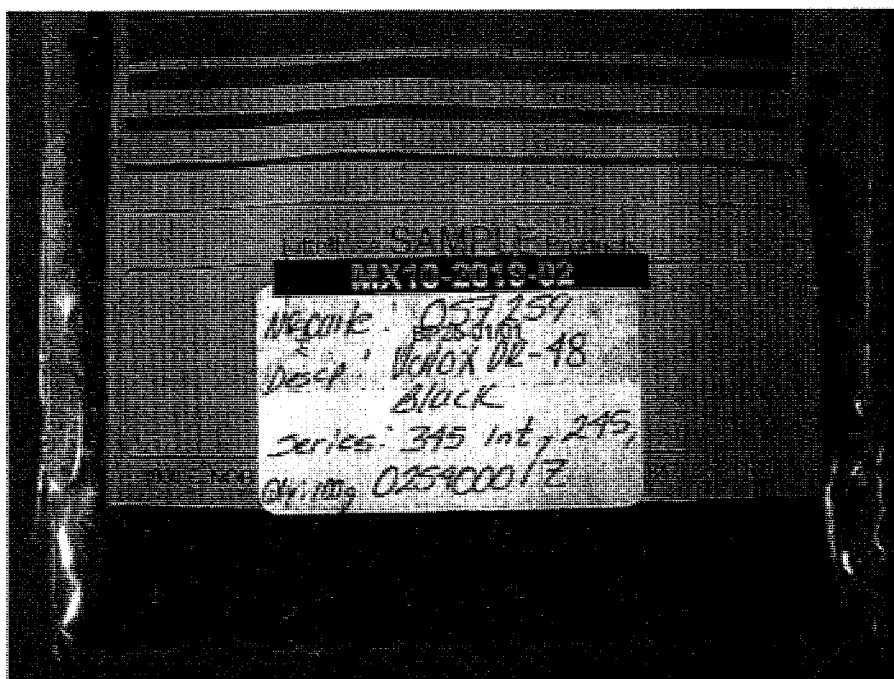
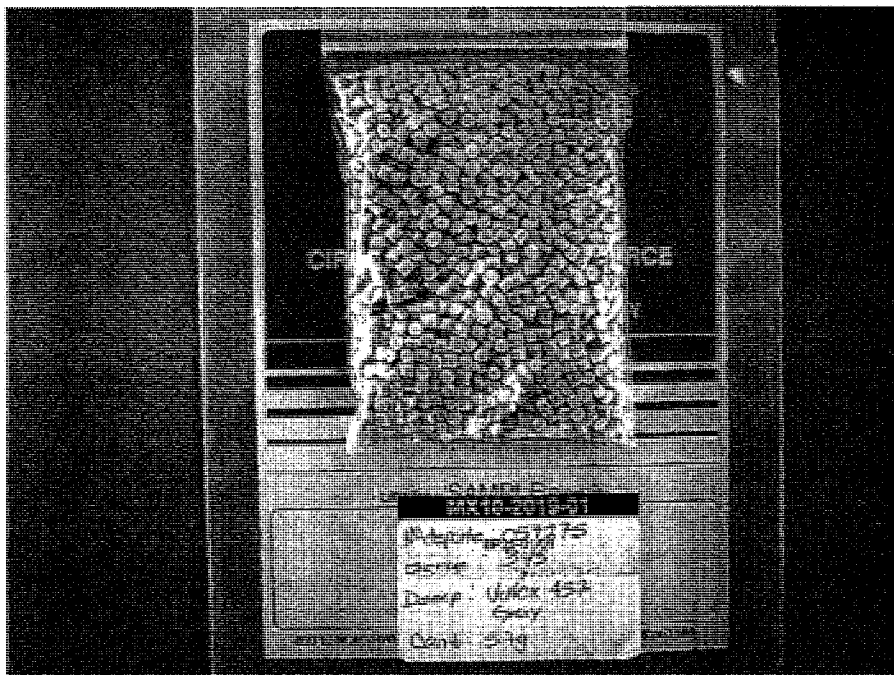
Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0
2	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	5,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0
2	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p81	2010-09-21	DCL	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p84	2010-09-20	RNC,UBM	0,250



MX10-2019





Report No.: MX10-1332

Date : 2010-07-12

RESULTS REPORT
INTERTEK TESTING SERVICES
DE MEXICO SA DE CV
LABORATORIO CD. DE MEXICO

DELIVER TO:

Littelfuse, S.A. de C.V.

Bld. Fausto Z. Mtz. No. 1800, Col. Magisterio, Piedras Negras,
Coahuila

ATTENTION: Ing. Mario Falcón

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Intertek Testing Services de México, S.A. de C.V.

Bld. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912160 Fax: 55407863

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001

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.

Bvd. Fausto Z. Mtz. No. 1800, Col. Magisterio, Piedras Negras, Coahuila

Ing. Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description

Serie 345

1) 882-425

2) 3453LF1-2

3) 891-018-003

Item No.

4) 345101-3

5) 345101-1

6) 070115

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-06-21

Testing period 2010-06-23 to 2010-07-12

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
1	882-425	Pass See Result summary	---	---
2	3453LF1-2	Pass See Result summary	---	---
3	891-018-003	Pass See Result summary	---	---
4	345101-3	Pass See Result summary	---	---
5	345101-1	Pass See Result summary	---	---
6	070115	Pass See Result summary	---	---

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Intertek Testing Services de México, S.A. de C.V.

Bvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec

C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

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002

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 1) 882-425
- 2) 3453LF1-2
- 3) 891-018-003

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(1)	(2)	(3)	
Cadmium (Cd) content	ND	ND	5,556	0,01% (100 ppm)
Lead (Pb) content	23,52	ND	16,01	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	---	< 50	---	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	---	< 10	---	---
Dibromobiphenyl (DiBB)	---	19,0	---	---
Tribromobiphenyl (TriBB)	---	< 10	---	---
Tetrabromobiphenyl (TetraBB)	---	< 10	---	---
Pentabromobiphenyl (PentaBB)	---	< 10	---	---
Hexabromobiphenyl (HexaBB)	---	< 10	---	---
Heptabromobiphenyl (HeptaBB)	---	< 10	---	---
Octabromobiphenyl (OctaBB)	---	< 10	---	---
Nonabromobiphenyl (NonaBB)	---	< 50	---	---
Decabromobiphenyl (DecaBB)	---	< 50	---	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	---	68,0	---	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	---	43,0	---	---
Dibromodiphenyl (DiBDE)	---	25,0	---	---
Tribromodiphenyl (TriBDE)	---	< 10	---	---
Tetrabromodiphenyl (TetraBDE)	---	< 10	---	---
Pentabromodiphenyl (PentaBDE)	---	< 10	---	---
Hexabromodiphenyl (HexaBDE)	---	< 10	---	---
Heptabromodiphenyl (HeptaBDE)	---	< 10	---	---
Octabromodiphenyl (OctaBDE)	---	< 10	---	---
Nonabromodiphenyl (NonaBDE)	---	< 50	---	---
Decabromodiphenyl (DecaBDE)	---	< 50	---	---

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C.P. 11650, México, D.F. Tel.: 509121 50 Fax: 55407863

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003

TEST CONDUCTED

One (1) group of submitted samples said to be :

- 4) 345101-3
- 5) 345101-1
- 6) 070115

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(4)	(5)	(6)	
Cadmium (Cd) content	ND	ND	7,788	0,01% (100 ppm)
Lead (Pb) content	ND	ND	41,34	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	< 50	< 50	---	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	< 10	18,0	---	---
Dibromobiphenyl (DiBB)	< 10	< 10	---	---
Tribromobiphenyl (TriBB)	< 10	< 10	---	---
Tetrabromobiphenyl (TetraBB)	< 10	< 10	---	---
Pentabromobiphenyl (PentaBB)	< 10	< 10	---	---
Hexabromobiphenyl (HexaBB)	< 10	< 10	---	---
Heptabromobiphenyl (HeptaBB)	< 10	< 10	---	---
Octabromobiphenyl (OctaBB)	< 10	< 10	---	---
Nonabromobiphenyl (NonaBB)	< 50	< 50	---	---
Decabromobiphenyl (DecaBB)	< 50	< 50	---	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	< 50	< 50	---	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	< 10	< 10	---	---
Dibromodiphenyl (DiBDE)	26,0	< 10	---	---
Tribromodiphenyl (TriBDE)	< 10	< 10	---	---
Tetrabromodiphenyl (TetraBDE)	< 10	< 10	---	---
Pentabromodiphenyl (PentaBDE)	< 10	< 10	---	---
Hexabromodiphenyl (HexaBDE)	< 10	< 10	---	---
Heptabromodiphenyl (HeptaBDE)	< 10	< 10	---	---
Octabromodiphenyl (OctaBDE)	< 10	< 10	---	---
Nonabromodiphenyl (NonaBDE)	< 50	< 50	---	---
Decabromodiphenyl (DecaBDE)	< 50	< 50	---	---

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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

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004

ppm = parts per million based on dry weight of sample.

$\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.

mg/kg WITH 50cm² = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω .

Prepared and checked by :

For Intertek

Irma Lopez
[Signature]
coord-de area

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-01 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-02 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-03 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-04 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-05 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1332-06 WERE TESTED TOGETHER.

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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

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005

Test method :

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
	Chromium (Cr ⁶⁺) content VI	With reference to USEPA 3060, by EPA 7196	BAL828p78	2010-06-29	MELA	2,0

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004530-PCL	2010-07-12	▲ CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004530-PCL	2010-07-12	▲ CONT	50*

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
1	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0
2	Lead (Pb) content	With reference to USEPA 3052, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0
3	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0
4	Lead (Pb) content	With reference to USEPA 3052, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0
5	Lead (Pb) content	With reference to USEPA 3052, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0
6	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-8p52,53	2010-06-25	MARY	10,0

<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
1	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5
2	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5
3	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5
4	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5
5	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5
6	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 7130	MET2010-8p52,53	2010-06-25	MARY	2,5

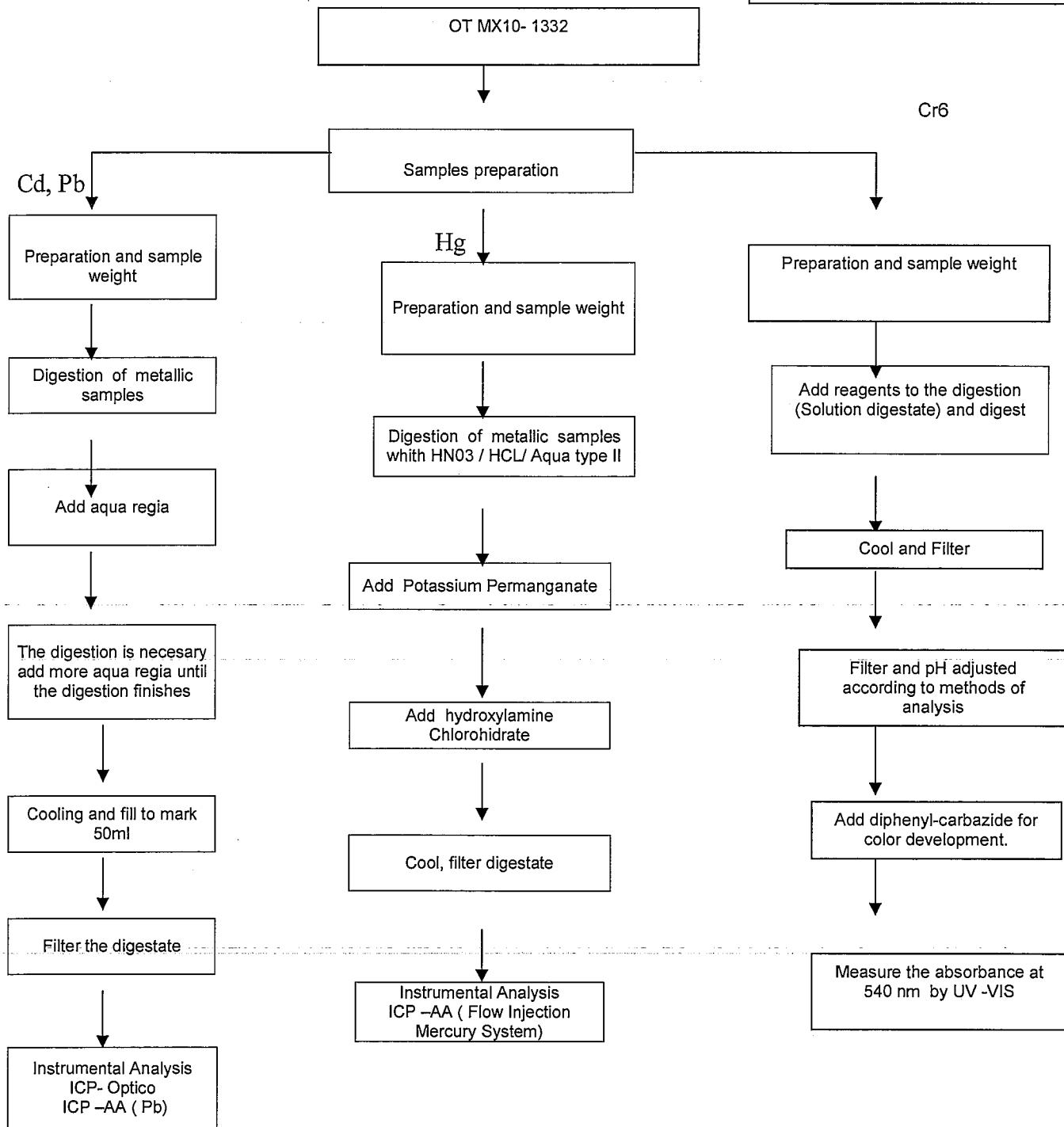
<u>No. de Muestra</u>	<u>Testing item</u>	<u>Ω Testing method</u>	<u>Quality control Batch:</u>	<u>Analysis Date:</u>	<u>Analyzed By:</u>	<u>Reporting limit ppm</u>
1	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083
3	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083
4	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083
5	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p46,50	2010-06-24	JAPM	0,083

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Intertek Testing Services de México, S.A. de C.V.

Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
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Test Report

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Report No. : CE/2006/20019
Date : 2006/02/10
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

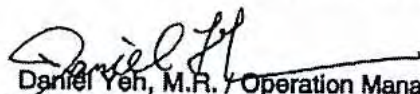
Type of Product : INSERT
Style/Item No : PN 891-018-003
Manufacturer/Supplier : LITTELFUSE INC.
Name
Country of Destination : TAIWAN
Country of Origin : USA
Sample Received : 2006/02/03
Testing Date : 2006/02/03 TO 2006/02/10

Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	10.9

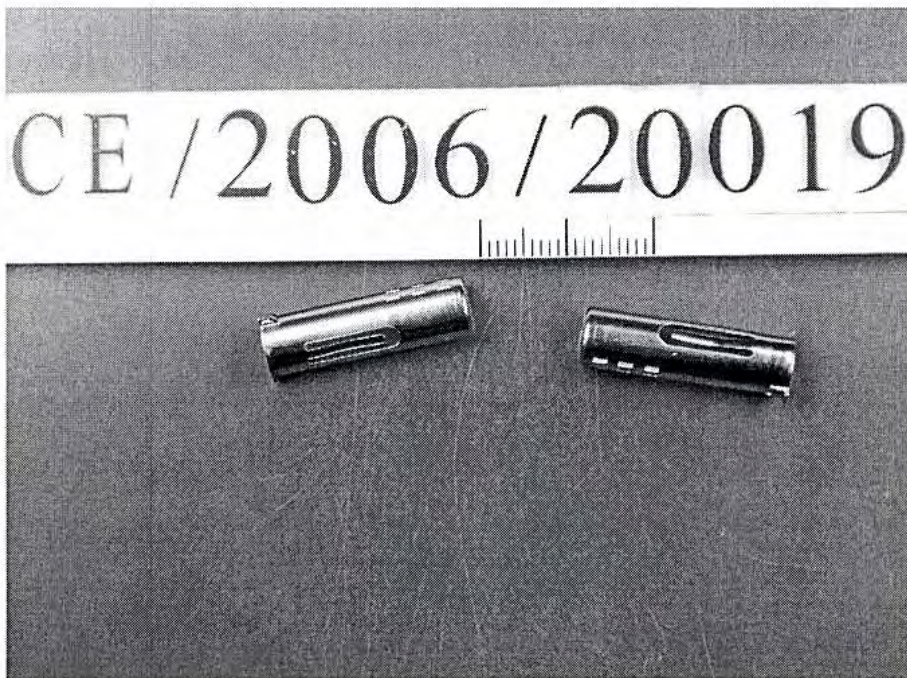
NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Test Report

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Report No. : CE/2006/20019
Date : 2006/02/10
Page : 2 of 2





Report No.: MX10-1675
Date : 2010-08-16

RESULTS REPORT
INTERTEK TESTING SERVICES
DE MEXICO SA DE CV
LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38,
Piedras Negras, Coahuila

ATTENTION: Ing. Mario Falcón / Ing. Manuel Berain

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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863

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Report No.: MX10-1675
Date : 2010-08-16

TEST REPORT

Date of modification: 2010-11-04
Document: MX10-1675-MOD

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Mario Falcón / Ing. Manuel Berain

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description Serie 342 0001X

1) N.P. 886-004

2) N.P. 886-115

3) N.P. 891-004

Item No.

4) N.P. 901-002

5) N.P. 905-023

6) N.P. 922-055

Country of Origin NP

Buyer's Name NP

Supplier's Name NP

Date sample received 2010-07-29

Testing period 2010-08-05 to 2010-08-12, 2010-10-11

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

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Report No.: MX10-1675
Date : 2010-08-16

Date of modification: 2010-11-04
Document: MX10-1675-MOD

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
1	N.P. 886-004	Pass See Result summary	---	---
2	N.P. 886-115	Pass See Result summary	---	---
3	N.P. 891-004	Pass See Result summary	---	---
4	N.P. 901-002	Pass See Result summary	---	---
5	N.P. 905-023	Pass See Result summary	---	---
6	N.P. 922-055	Pass See Result summary	---	---

TEST CONDUCTED

Samples:

- 1) N.P. 886-004
- 2) N.P. 886-115
- 3) N.P. 891-004

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(1)	(2)	(3)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	42,60	28,59	71,00	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)

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Report No.: MX10-1675

Date : 2010-08-16

TEST CONDUCTED

Samples:

Date of modification: 2010-11-04

Document: MX10-1675-MOD

4) N.P. 901-002

5) N.P. 905-023

6) N.P. 922-055

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(4)	(5)	(6)	
Cadmium (Cd) content	ND	40,36	ND	0,01% (100 ppm)
Lead (Pb) content	52,76	ND	29,32	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	ND	---	---	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	---	---	---
Dibromobiphenyl (DiBB)	21,0	---	---	---
Tribromobiphenyl (TriBB)	ND	---	---	---
Tetrabromobiphenyl (TetraBB)	ND	---	---	---
Pentabromobiphenyl (PentaBB)	ND	---	---	---
Hexabromobiphenyl (HexaBB)	ND	---	---	---
Heptabromobiphenyl (HeptaBB)	ND	---	---	---
Octabromobiphenyl (OctaBB)	ND	---	---	---
Nonabromobiphenyl (NonaBB)	ND	---	---	---
Decabromobiphenyl (DecaBB)	ND	---	---	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	ND	---	---	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	---	---	---
Dibromodiphenyl (DiBDE)	ND	---	---	---
Tribromodiphenyl (TriBDE)	ND	---	---	---
Tetrabromodiphenyl (TetraBDE)	ND	---	---	---
Pentabromodiphenyl (PentaBDE)	ND	---	---	---
Hexabromodiphenyl (HexaBDE)	ND	---	---	---
Heptabromodiphenyl (HeptaBDE)	ND	---	---	---
Octabromodiphenyl (OctaBDE)	ND	---	---	---
Nonabromodiphenyl (NonaBDE)	ND	---	---	---
Decabromodiphenyl (DecaBDE)	ND	---	---	---

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ppm = parts per million based on dry weight of sample.

$\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.

mg/kg WITH 50cm^2 = milligram per kilogram with 50 square centimeter.

< = less than.

ND = Not detected.

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω .

Prepared and checked by :
For Intertek

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO
ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-1 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-2 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-3 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-4 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-5 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1675-6 WERE TESTED TOGETHER.



Report No.: MX10-1675

Date : 2010-08-16

Date of modification: 2010-11-04

Document: MX10-1675-MOD

Test method :

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-6	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p159	2010-08-06	JLHS	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
4	POLYBROMINATE D BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004627-P CL	2010-08-12	▲ CONT	50,0
4	POLYBROMINATE D DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004627-P CL	2010-08-12	▲ CONT	50,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	5,0
2	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	5,0
3	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	5,0
4	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p47	2010-08-12	DCL,JMR	5,0
5	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-21p3	2010-10-11	DCL,JMR	5,0
6	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	5,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	2,0
2	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	2,0
3	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	2,0
4	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p47	2010-08-12	DCL,JMR	2,0
5	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	2,0
6	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-32p46	2010-08-12	DCL,JMR	2,0

Sample Number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p17	2010-08-10	JAPM	0,083
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p18	2010-08-10	JAPM	0,083
3	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p18	2010-08-10	JAPM	0,083
4	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p15	2010-08-10	JAPM	0,083
5	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p18	2010-08-10	JAPM	0,083
6	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-31p18	2010-08-10	JAPM	0,083

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